

5(3)  
AUTHORS:

Shusherina, N. P., Levina, R. Ya.,  
Trubnikov, I. S.

SOV/79-29-9-28/76

TITLE:

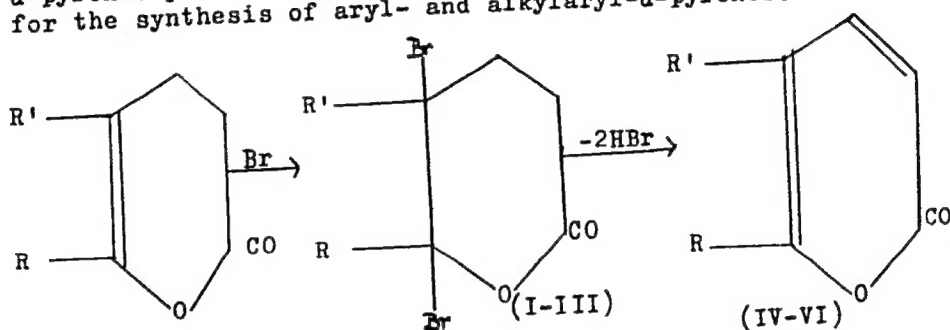
$\delta$ -Lactones.  
XVII. Synthesis of the Aryl- and Alkylaryl- $\alpha$ -pyrones

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 2942-2945  
(USSR)

ABSTRACT:

The present investigation employs the method of synthesizing  
 $\alpha$ -pyrones previously developed and described (Refs 1-4) also  
for the synthesis of aryl- and alkylaryl- $\alpha$ -pyrones:



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$\delta$ -Lactones-

XVII. Synthesis of the Aryl- and Alkylaryl- $\alpha$ -pyrones

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where (I and IV)  $R = p\text{-CH}_3\text{C}_6\text{H}_4$ ,  $R' = \text{H}$ ;

(II and V)  $R = \text{C}_6\text{H}_5$ ,  $R' = \text{CH}_3$ ;

(III and VI)  $R = \text{CH}_3$ ,  $R' = \text{C}_6\text{H}_5$ .

(Abstracter's note:



is probably a misprint, compare also with structural formula, middle of p 2943)

This is the way of synthesizing hitherto not described isomeric  $\alpha$ -pyrones which differ by the position of the methyl group: 6-p-tolyl- $\alpha$ -pyrone (IV), 5-methyl-6-phenyl- $\alpha$ -pyrone (V), 6-methyl-5-phenyl- $\alpha$ -pyrone (VI). The structure of these  $\alpha$ -pyrones was confirmed by the formation of the double adducts (VII-IX) with maleic anhydride (Scheme 2). The yields of  $\alpha$ -pyrones vary from 12 to 60%, according to the presence and the character of the substitutes in the 5- and 6-position, which corresponds fully to the transformation mechanism of the dibromides of the  $\delta$ -enol lactones into the  $\alpha$ -pyrones (Ref 5) as previously suggested by the authors; the subsequent separation of two molecules HBr from the dibromo lactones (in distillation) proceeds in such a way that the bromine atom of 5-position participates

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$\delta$ -Lactones.

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XVII. Synthesis of the Aryl- and Alkylaryl- $\alpha$ -pyrones

in the formation of the first molecule HBr (Scheme 3) so that the mobility of this bromine atom in 5-position exerts a great influence upon the yields of  $\alpha$ -pyrones. This is the reason for the difference between the yields of  $\alpha$ -pyrone from dibromide (I) (12%) and the yield of  $\alpha$ -pyrone from dibromide (II) (35%). A 60%  $\alpha$ -pyrone (VI) yield results from the distillation of dibromide (III) where the  $\equiv\text{C-Br}$ -group is in 5-position. There are 7 references, 6 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: July 14, 1958

Card 3/3

79-28-5-54/69

AUTHORS: Lur'ye, M. Yu., Trubnikov, ~~I. S.~~ Shusherina, N. P.,  
Levina, R. Ya

TITLE:  $\delta$ -Lactones ( $\delta$ -Laktony). XII. Synthesis and Properties of  
6-Phenyl-3,4-Dihydro- $\alpha$ -Pyrone (Sintez i svoystva 6-fenil-3,4-  
-digrido- $\alpha$ -pirona)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 5,  
pp. 1351 - 1355 (USSR)

ABSTRACT: In previous publications a synthesis of unsaturated  $\delta$ -lac-  
tones (3,4-dihydro- $\alpha$ -pyrones) from monocyano-ethylated ali-  
phatic and alicyclic ketones (Reference 1-4) was described.  
In the present paper the unsaturated lactone, 6-phenyl-  
-3,4-dihydro- $\alpha$ -pyrone (formula III), was synthesized this way  
(see scheme 1). From references, it is known that the cyano-ethyla-  
tion of acetophenone either leads to the tricyano-ethylated  
derivative (Reference 5) or to the mixture of monocyano-  
ethylated (13%) and dicyano-ethylated acetophenone (Reference  
6). The authors succeeded in finding conditions on which this  
treatment makes it possible to synthesize the  $\gamma$ -benzoylbutyro-

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6-Lactones. XII. Synthesis and Properties of 6-Phenyl-3,4-Dihydro- $\alpha$ -Pyrone

-nitrile(I)(28-35%) only. The hydrolysis of nitrile (I) in  $\gamma$ -benzoylbutyric acid (II) and its conversion to lactone (III) occurred with respective yields of 100 and 75%. It was further shown that on the action of an equimolar amount of bromine on the lactone (III) a liquid dibromide (IV) forms which, similar to the earlier described dibromolactone (IV), converts on the treatment with water to the  $\gamma$ -bromo- $\gamma$ -benzoylbutyric acid (VI) in a yield of 86.5%. In the vacuum distillation in a dry air current the dibromolactone converts to the 6-phenyl- $\alpha$ -pyrone(phenylcoumalin,V) on which occasion the initial product, the unsaturated  $\delta$ -lactone (III), is reforming. however. Thus in the distillation of dibromolactone (IV) the cleavage of two molecules of hydrogen bromide leads to the formation of  $\alpha$ -pyrone (V), while the cleavage of bromine causes the formation of the initial lactone (scheme ?). There are 14 references, 6 of which are Soviet.

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79-28-5-54/69

$\delta$ -Lactones. XII. Synthesis and Properties of 6-Phenyl-3,4-Dihydro- $\alpha$ -Pyrone

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University )

SUBMITTED: April 15, 1957

Card 3/3

SHUSHERINA, N.P.; LEVINA, R.Ya.; LUK'YANETS, Ye.A.; TRUBNIKOV, I.S.

*S*-Lactones and *S*-lactams. Part 30:6-alkyl-3,4-dihydro-2-pyrones.  
Zhur.ob.khim. 32 no.11:3602-3607 N '62. (MIRA 15:11)

1. Moskovskiy gosudarstvennyy universitet imeni  
M.V. Lomonosova.

(Pyranone)

TRUBNIKOV, I.S.; PENTIN, Yu.A.

Infrared spectra and structure of ketols. *Zhur.ob.khim.*  
32 no.11:3590-3595 N '62. (MIRA 15:11)

1. Moskovskiy gosudarstvennyy universitet imeni  
M.V. Lomonosova.

(Ketols--Spectra)



TRUBNIKOV, I.S.; TEPLINSKAYA, R.B.; PENTIN, Yu.A.; SHUSHERINA, N.P.;  
LEVINA, R.Ya.

Absorption spectra and structure of keto acids in solutions. Zhur.ob.  
khim. 33 no.4:1210-1214 Ap '63. (MIRA 16:5)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.  
(Acids, Organic—Spectra) (Ketones)

TRUBNIKOV, I.Ye., inzh.; ZHURAVEL', Sh.I., kand. ekon. nauk

What experience has shown in the organizational and economic strengthening of railroad sections. Zhel. dor. transp. 41 no.5:15-20 My '59. (MIRA 12:7)

1.Nachal'nik Novosibirskogo otdeleniya Tomskoy dorogi (for Trubnikov)  
(Railroads--Management)

TRUBNIKOV, I.Ye.; OGORODNIK, N.I.; FLEYSHMAN, B.A., dotsent;  
MOSKALEV, P.I., dotsent

What are the advantages of concentrated classification operations? Zhel. dor. transp. 46 no.7:32-37 J1 '64.

(MIRA 17:8)

1. Zamestitel' nachal'nika Zapadno-Sibirskoy dorogi (for Trubnikov). 2. Novosibirskiy institut inzhenerov zheleznodorozhnogo transporta (for Fleyshman, Moskaev).

TRUBNIKOV, M.

Windbreaks, Shelterbelts, Etc.

Experience of shelter belt station innovators. Les. khoz. 5 no. 3(42), 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

Timber, .

Timber, helterbelts, etc.

Time chart- every tractor brigade. Les 1 step' 4 no. 4, 1954.

9. Monthly List of Russian Accessions, Library of Congress, September 1953, Uncl.

TAB 111-54  
NUTRIKHIN, I., inzhener; TRUBNIKOV, M., elektrosvarshchik.

Changing combustion chamber wall plates in the steam boiler  
of the steamer "Minsk." Mor.flet 17 no.8:25 Ag '57. (MIRA 10:10)

1.Lenvodput'.

(Boilers, Marine)

ANUCHIN, N.P., prof., otv. red.; BRASLAVSKAYA, M.M., red.;  
 DEBYABIN, D.I., kand. sel'khoz. nauk, red.; ZHELEZNIKOV,  
 G.F., kand. sel'khoz. nauk, red.; IVANNIKOV, S.P., kand.  
 sel'khoz. nauk, red.; IVANOV, G.G., red.; LARYUKHIN, G.A.,  
 kand. tekhn. nauk, red.; LOSITSKIY, K.B., doktor sel'khoz.  
 nau. zam. otv. red.; MIRONOV, V.V., kand. sel'khoz. nauk,  
 red.; RODIONOV, A.Ya., kand. sel'khoz. nauk, red.;  
 TRUBNIEV, M.M., kand. ekon. nauk, red.; CHEVEDAYEV, A.A.,  
 kand. sel'khoz. nauk, red.; SHUMAKOV, V.S., kand. sel'khoz.  
 nauk, red.; YURGELSON, F.B., doktor biol. nauk, red.; TROPIN,  
 I.V., kand. sel'khoz. nauk, red.

[Studying the performance of new machinery in silvicultural  
 work; scientific papers] Issledovanie rabochikh protsessov  
 novykh mashin na lesokul'turnykh rabotakh; nauchnye trudy.  
 Moskva, Izd-vo "Lesnaya promyshlennost'," 1964. 111 p.

(MIRA 17:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut  
 lesovodstva i mekhanizatsii lesnogo khozyaystva.

Trubnikov, M. A.

Cand. Agricult. Sci

Dissertation: "Organization of Forest Conservation Work."

2 November 49

Moscow Forestry Engineering Inst

**SO Vecheryaya Moskva**  
**Sum 71**



1. TRUBNIKOV, M. M.
2. USSR (600)
4. Tree Planting
7. Organization of labor for planting tree seeds and seedlings at the same time.  
See step 4 No. 12, 1952

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

TRUBNIKOV, Mikhail Mikhaylovich; MAKAROV, G.Ye., redaktor;  
AGRANOVSKAYA, N.D., redaktor izdatel'stva; SHITS, V.P.,  
tekhnicheskii redaktor

[Establishment of technical norms in forestry] Tekhnicheskoe  
normirovanie v lesnom khoziaistve. Moskva, Goslesbumizdat, 1956.  
135 p. (MLRA 10:4)

(Forests and forestry--Production standards)

TRUBNIKOV, M.Z.  
NUTRIKHIN, I.K.; TRUBNIKOV, M.Z.

New method of replacing steam boiler firebox walls. Rech.transp.  
16 no.10:39 0 '57. (MIRA 10:12)  
(Boilers, Marine--Maintenance and repair)

TRUBNIKOV, N., doktor tekhn. nauk; SURMELI, D., inzh.; MAR, Ch., inzh.

Izol, the waterproofing and roofing material. Stroi. mat. 2  
no.10:7-9 0 '56. (MIRA 12:3)  
(Waterproofing) (Roofing)

**"APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001756810018-4**

**APPROVED FOR RELEASE: 03/14/2001**

**CIA-RDP86-00513R001756810018-4"**

18.01.1952  
MOSCOW AUTOMOTIVE MECHANICS INST

TRUBNICOV, N. K. -- "FREE PLAY OF AN ELASTIC WHEEL INCLINED TO THE ROAD." 100 OF DEC 1951  
MOSCOW AUTOMOTIVE MECHANICS INST (DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL  
SCIENCE)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

ANISOMOV, B.V., kandidat tekhnicheskikh nauk, dotsent; ~~TRUBNIKOV, N.V.,~~  
kandidat tekhnicheskikh nauk, dotsent.

Calculating machines serving mankind. Trudy MVTU no.55;3-6 '55.  
(MLBA 9:8)

(Calculating machines)

~~TRUBNIKOV, N.V.~~, kandidat tekhnicheskikh nauk, dotsent; POPOV, N.F.,  
kandidat tekhnicheskikh nauk, dotsent.

Number systems and methods of number conversion used in programming  
mathematical machines. Trudy MVTU no.55:7-25 '55. (MLRA 9:8)  
(Mathematical Instruments) (Numeration)



*Trubnikov, N.V.*  
TRUBNIKOV, N.V.; BELOV, B.I.; SAVEL'YEV, A.Ya.; ANISIMOV, B.V., kand.  
tekhn. nauk, red.

[Program controlled machine tools] Programmnoe upravlenie metallo-  
rezhushchimi stankami. Pod red. B.V. Anisimova. Moskva, 1957. 39 p.  
(Machine tools--Numerical control) (MIRA 11:3)

RYZHOV, V. I., TRUBNIKOV, N. V., ZAVOLOKIN, A. K. and PASKAKOV, Ye. M.

"The Input and Output Devices of Computers."

report presented at the Conference on Automation and Computation Engineering  
Moscow, 5-8 March 1957. Organized by AU Sci. Eng. and Tech. Society for  
Apparatus Building.

65985 69585  
SOV/112-59-22-46208

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, Nr 22, p 127 (USSR)

28.2000  
AUTHOR:

Trubnikov, N.V.

TITLE:

Input and Output of Information in High-Speed Digital Computers

PERIODICAL:

V sb.: Avtomat. upravleniye i vychisl. tekhn. Moscow, Mashgiz, 1958, pp 223 - 242

ABSTRACT:

A detailed review of <sup>250</sup>devices for input and output of information in digital computers. General conditions, which the carrier of information must satisfy are: low costs, a high density of recording (the amount of information per unit of length, area or volume), durability and possibility of repeated use, indelibility of recording at prolonged storage, possibility of an easy checking and correction of recording, reliability of reading and possibility of putting together the initial documents out of separate pieces. The most frequently used are punched cards, punched tapes and magnetic tapes. Less used are magnetic wire and film. Punched cards permit recording an information with a density of ~355 signs per cm<sup>3</sup>. The correctness of recording is checked visually or with instruments. A correction of the recording is impossible. The

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### Input and Output of Information in High-Speed Digital Computers

costs of equipment for handling the punched cards are relatively high. Under proper conditions punched cards can be kept for a long time and used repeatedly. The speed of recording on punched cards is  $\sim 15 - 20$  numbers per second, and the speed of reading (when photodiodes are used) is  $\sim 180$  numbers per second. The reliability of devices for handling punched cards is fairly high. Punched tapes are used with widths of 5 - 182 mm and have correspondingly 1 - 90 tracks. The most used are punched tapes with a width of 12 mm (2 tracks), 17.5 mm (5 tracks) and 35 mm (12 tracks). The storage conditions, multiplicity of use and possibility of reproducing the information from damaged punched tapes are about the same as for punched cards. The complexity of equipment depends on the width of punched tapes. The costs of equipment for narrow punched tapes are low. To prolong the life time of punched tapes the information is read by means of photodiodes at a speed of  $\sim 150 - 200$  40-digit numbers per second for a 5-track punched tape. The speed of recording is  $\sim 20 - 30$  punchings per second. An advantage of punched tapes is the possibility of a repeated input of information by means of reversing or pasting into a ring, which cannot be done with the punched cards. General information regarding magnetic tapes, magnetic heads and principles of recording and reading is imparted. Mostly used are the following methods of recording. Two-level

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SOV/112-59-22-46208

#### Input and Output of Information in High-Speed Digital Computers

recording, at which the amplitude of the pulse read is much larger and the density of recording much lower than with other methods of recording. Three-level recording, at which the absence of a number is represented by the zero remanent induction, and unity and zero are recorded by the mutually reverse magnetization. By this method the density of recording increases by about 25% and the amplitude of the signal read decreases by 30%, and the amplitude of ghost pulses decreases sharply. Two-level recording without an interval between like numbers. This method requires the presence of marker pulses to determine the number of unities and zeroes in a group, as well as the absence of a digit. The method permits doubling the density of recording. The width of magnetic tapes is within 6.35 - 125 mm, the number of tracks is correspondingly from 1 - 3 to 50. Mostly used are magnetic tapes with a width of 17.5 and 35 mm with a parallel-successive method of recording. With an increased width of the tape the deformation of the magnetic tape at transport affects essentially the density of recording. The deformation of magnetic tapes causes a skewing of the line of the recorded information relative to the slots of the magnetic head. An analysis of the influence of skewings on the density of recording and on the interchangeability of magnetic tapes is given. Data on the influence of the design of the magnetic head assembly on the accuracy of

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#### Input and Output of Information in High-Speed Digital Computers

adjustment of an imaginary ideal line are supplied. Tests of home and foreign magnetic tapes have shown, that they must have a mechanical strength of  $\geq 5$  kg at a width of 6.35 mm and a stretchability of  $\leq 0.1\%$  per unit of length; physical and geometric parameters must be uniform; the size of grains of the magnetic coating must be  $\leq 0.1$  micron; the surface of contact with the magnetic head must be polished. The costs of magnetic tapes are low, the density of recording is 5,000 - 50,000 signs per  $\text{cm}^3$  at the thickness of tape of 0.05 - 0.12, step of recording 0.5 - 0.08 and width of track 1-2 mm. Storage time of magnetic tapes is several years. The design of mechanisms for drawing magnetic tapes is simple in principle, but requires a precision in manufacturing. An increase in reliability leads to a decrease in the density of recording and to a more complicated equipment. Briefly is reported on devices for preparing and recording the initial information on the carriers and for the printing of results. 18 illustrations.

B.I.Z. 

Card 4/4

TRUBNIKOV, N.V.

25(5) PHASE I BOOK EXPLOITATION SOV/2394

Moscow. Dos nauchno-tekhnicheskoy propagandy imeni P.E. Dzerzhinskogo

Kompleksnaya avtomatizatsiya i mekhanizatsiya v mashinostroyeni: sbornik statey (Overall Automation and Mechanization in Machine Manufacturing: Collection of Articles) Moscow, Mashgiz, 1959. 312 p. 8,000 copies printed.

Additional Sponsoring Agency: Obkhodstvo po rasprostraneniyu politicheskikh i nauchnykh znaniy KPSS.

Ed.: A.N. Malov, Candidate of Technical Sciences, Tech. Ed.; S.I. Model, Managing Ed. for literature on Metalworking and Toolmaking (Mashgiz); B.D. Beysel'man, Engineer.

PURPOSE: This collection of articles is intended for engineering and technical personnel of plants manufacturing machines and instruments.

COVERAGE: This book acquaints industrial workers with devices and equipment necessary for the overall mechanization and automatization of technological processes in machine manufacturing. Individual articles deal with general problems of automatization and mechanization of processes in preparatory, machine, and assembly shops, and with problems arising from the introduction of transfer lines. The book also includes examples of devices and equipment tested and used under actual plant conditions. The source of the data on the mechanization of overall mechanization and automatization of technological processes is the book "Mekhanizatsiya i avtomatizatsiya mashinostroyeniya" (Mechanization and Automatization of Machine Manufacturing) by P.E. Dzerzhinskogo (Moscow House for Scientific and Technical Propaganda imeni P.E. Dzerzhinskogo). No personalities are mentioned. Several of the articles are followed by references.

Trubnikov, N.V. /Candidate of Technical Sciences/. Programmed Control of Metalcutting Machine Tools 101  
Boltukhin, A.K. /Engineer/. Mechanization and Automatization of Machining Processes on Milling Machines 123  
Khitruk, M.S. /Engineer/. Mechanization and Automatization of Grinding Machines 148  
Farfanov, O.D. /Engineer/. Self-resetting of Automatic Metal-cutting Machine Tools 171  
Ryabov, N.Ya. /Engineer/. Automatization of Assembling Processes in Instrument Manufacture 196  
Lyudskirskiy, D.G. /Engineer/. Automatic Lines for Production of Bearings 213  
Koshkin, L.N. /Candidate of Technical Sciences/. Automatic Rotary Lines /Rotary Machines/ 231  
Bobrov, V.P. /Candidate of Technical Sciences/. Transfer Systems of Automatic Lines 246  
Malov, A.M. /Candidate of Technical Sciences/. Modern Designs of Magazine Loading Devices 268  
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PHASE I BOOK EXPLOITATION

SOV/2906

Moscow. Vyssheye tekhnicheskoye uchilishche imeni Baumana. Kafedra matematicheskikh mashin

Vychislitel'naya tekhnika (Computer Techniques) Moscow, Mashgiz, 1959. 153 p. (Series: Moscow. Vyssheye tekhnicheskoye uchilishche. Sbornik, No. 2) 2,500 copies printed.

Ed.: B.V. Anisimov, Candidate of Technical Sciences; Tech. Eds.: B.I. Model' and A.F. Uvarova; Managing Ed. for Literature on Machine Building and Instrument Construction: N.V. Pokrovskiy, Engineer.

PURPOSE: This book may be useful to Aspirants and other students specializing in computer technology, and also to designers and engineering and technical personnel who make use of electronic computers.

COVERAGE: The book is a collection of articles written by the members of the Department of Mathematical Machines at the Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana (Moscow Higher Technical

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Computer Techniques

SOV/2906

School imeni Bauman) in honor of the 40th anniversary of the October Revolution. The articles contain the results of theoretical and experimental studies on the performance of various components of electronic computers. Among the topics discussed are program storage, control devices, the connection between the parameters of an algorithm and a machine, etc. The application of these components to the control of technological processes is also discussed.

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AVAILABLE: Library of Congress

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LK/bg  
1-18-60

ZINCHENKO, Andrey Vasil'yevich; VIKHMAN, Viktor Semenovich; TRUBNIKOV,  
N.V., red.; KOLOTILOVA, Yu.V., referent, otv. za vypusk;  
SUKHAREVA, R.A., tekhn.red.

[New automatic control systems for machine tools] Novye sistemy  
upravleniia metallorezhushchimi stankami. Moskva, 1959. 36 p.  
(Moskovskii dom nauchno-tekhnicheskoi propagandy. Peredovoi opyt  
proizvodstva. Seriya: Progressivnaia tekhnologiya mashinostroeniia,  
vyp. 3). (MIRA 13:8)  
(Machine tools--Numerical control)

TRUBNIKOV, N.V., kand.tekhn.pauk; NEKRYLOV, Ye.I., inzh.

Construction principles of the local control of non-  
operative memorizing devices. [Trudy] MYTU no.2:21-31  
'59. (MIRA 13:5)

(Magnetic memory (Calculating machines))

TRUBNIKOV, N.V., inzh.

Impact of a pile-driving hammer. Trudy TSNIIS no.56:148-270 '65.  
(MIRA 18:5)

SOV/81-59-20-72055

Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 20, p 318 (USSR)

AUTHOR: Trubnikov, N.V.

TITLE: New Heat-Insulating Materials

PERIODICAL: Tr. Konferentsii-kursov po teplovoy izolyatsii, 1955. Moscow-Leningrad, Gosenergoizdat, 1958, Nr 34 - 38

ABSTRACT: This is a short characteristic of the state of the production of heat-insulating materials from slag cotton, sovelite, vulcanite, foam glass and also of the new heat-insulating material "perlit" (vol. weight 270 - 350 kg/m<sup>3</sup>, weight of dry granular material 195 - 230 kg/m<sup>3</sup>, coefficient of heat conductivity of granular mass 0.104 - 0.107 kcal/m hr degree.

G. Gerashchenko

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TRUBNIKOV, N.V., inzh.

Design of the pile foundations of temporary railroad bridges over  
deep water. Trudy TSNIIS no.47:41-52 '63. (MIRA 16:5)  
(Bridges—Foundation and piers)

TRUBNIKOV, P.N.

Combining undercutting and timbering operations in longwalls is  
a way of increasing labor productivity. Ugol' 30 no.12:1-4 D  
'55. (MLRA 9:2)

1.Nachal'nik tekhnicheskogo otdela tresta Cherepet'ugol'.  
(Moscow Basin--Coal mines and mining)

TRUBNIKOV, R.A.,  
V. P. ROMANOV, Russ. 35, 254, July 31, 1934

22 (1)  
AUTHOR:

TRUBNIKOV, S.

SOV/27-59-2-4/30

TITLE:

Problems of Training Skilled Workers During the 7-Year Plan (Voprosy podgotovki rabochikh kadrov v gody semiletki)

PERIODICAL:

Professional no-tekhnicheskoye obrazovaniye, 1959, Nr 2, pp 7 - 9 (USSR)

ABSTRACT:

During the period 1959 - 1965 it is planned to develop general secondary education considerably as well as secondary level and advanced, specialized evening and correspondence courses. Vocational training will occupy a prominent place in raising the educational level of young people. Schools providing general education will help in this respect by organizing the training of senior grade students in certain industrial jobs. The production expansion requirements of the 7-Year Plan will entail a considerable increase in the number of skilled workers and in the level of their vocational training. The author mentions that a one percent general increase in labor productivity will mean labor saving of about 200,000 workers. The number of workers and employees is expected to rise during the period 1959 - 1965 by 11.5 million (i.e. by 21%). By the end of the 7-Year Plan

Card 1/3

SCV/27-59-2-4/30

Problems of Training Skilled Workers During the 7-Year Plan

period, the total number in the national economy will exceed 66 million. A wide network of FZO and FZU schools, trade and technical institutions, a system of individual and brigade training, and various similar courses have been established to train skilled workers. Such workers must further be trained to replace natural manpower losses which are estimated at 2% annually of the total Soviet working force, excluding kolhozniiks, i.e. around 700,000 workers. The author then turns to the problem of training workers in the individual Union republics and particularly in the Soviet East where the network of vocational schools is inadequate. He emphasizes that the vocational-technical schools must have apprentice workshops, well equipped laboratories and technically qualified craftsmen and engineers as instructors. The vocational-technical schools, working on the basis of polytechnical and general labor instruction, received by students in the 8-year school, must give their trainees not only vocational but also general educational instruction. The recent Law on closer ties between education and practical life provides that part of the existing Labor Reserve Schools

Card 2/3

Problems of Training Skilled Workers During the 7-Year Plan SOV/27-59-2-4/30

will be maintained for the next 3 to 5 years to enable young people now at high school to enter technical or trade school. The main source for additional skilled workers will be those secondary schools providing industrial training. The author emphasizes the high standard maintained in vocational training throughout the USSR, but also calls attention to the fact that training at some enterprises considerably exceeds requirements. There are 2 Soviet references and 1 table.

Card 3/3

TRUBNIKOV, S.

Training of qualified workers in vocational schools is expanding.  
Prof.-tekh.obr. 21 no.3:4-5 Mr '64. (MIRA 17:4)

1. Chlen kollegii Glavnogo upravleniya professional'no-tekhnicheskogo obrazovaniya pri Sovete Ministrov RSFSR.

TRUBNIKOV, S.

Coordination in the training of qualified workers. Prof.-tekh.obr.  
18 no.6:14-16 Je '61. (MIRA 14:7)  
(Education, Cooperative)



VEYSBLAND, A.; TRUBNIKOV, S.; BELKIN, V.

International seminar of socialist countries on vocational and technical education. Prof.-tekh. obr. 17 no.9:27-29 S '60.

(MIRA 13:10)

(Vocational education—Congresses)

TRUBNIKOV, S.

Problems of labor supply training during the seven-year plan.  
Prof.-tekh.obr. 16 no.2:7-9 P '59. (MIRA 12:5)  
(Technical education)

27-58-7-3/27

AUTHOR: Trubnikov, S.

TITLE: Changes in the Professional Structure of Industrial Workers in the USSR (Izmeneniya v professional'nom sostave rabochikh promyshlennosti SSSR)

PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1958, Nr 7, pp 3-6 (USSR)

ABSTRACT: Enormous changes in the professional structure of industrial workers are taking place in the USSR. This is revealed by statistical material recently issued by the TsSU, covering the period 1925-1954 (Tables 1-4). Most striking is the increase in the following professions: 1) machine operators, adjusters of automatic machinery and instruments (in 1925 - 1,200 men, in 1954 - 53,000); 2) metal craftsmen, (in 1925 - 41,000, in 1954 - 512,500); 3) electricians, (in 1925 - 2,700, in 1954 - 115,100). Owing to the steady growth of automation in industry, new professions are created which need very thorough training and good general education. In 1951, only 45 % of the students entering Soviet trade schools had on the average a 7th grade of higher education, while in 1956, the education level of 93 % of the newcomers varied between the 7th and 10th grades.

Card 1/2

27-58-7-3/27

Changes in the Professional Structure of Industrial Workers in the USSR

There are 4 tables and 6 Soviet references.

1. Industry--USSR 2. Education--USSR

Card 2/2

LAZUTKIN, Ye.S.; RUSANOV, Ye.S.; EYDEL'MAN, R.A.; TRUBNIKOV, S.V.; KAPLAN, I.I.; ZAGORODNIKOV, M.I.; GEL'TSOV, A.N.; TATARINOVA, N.I.; SONIN, M.Ya.; SHISHKIN, N.I., doktor geogr.nauk; ANTOSENKOV, Ye.G.; ZHMYKHOVA, I.I.; KOSYAKOV, P.O.; MATROZOVA, I.I.; ZELENSKIY, G.N.; SEMENKOV, Ya.S.; ZALKIND, A.I., red.; RUSANOV, Ye.S., red.; SHTEYNER, A.V., red.; MIKHAL'CHENKO, N.Z., red.; GERASIMOVA, Ye.S., tekhn. red.

[Manpower of the U.S.S.R.; problems in distribution and utilization]  
Trudovye resursy SSSR; problemy raspredeleniia i ispol'zovaniia. Pod  
red. N.I.Shishkina. Moskva, Izd-vo ekon.lit-ry, 1961. 243 p. (MIRA 14:12)

Moscow. Nauchno-issledovatel'skiy institut.  
(Manpower)

STEFANOVA, Lilyana; TRUBNIKOV, V. [translator]; LYUBECHANSKAYA, N.,  
red.; IL'INA, L., tekhn. red.

[I shall remember you, Uzbekistan; traveler's notes] Budu  
pomnit' tebia, Uzbekistan; putevye zametki. Tashkent, Gos.  
izd-vo khudozh. lit-ry UzSSR, 1960. 142 p. (MIRA 15:3)  
(Uzbekistan--Description and travel)

TRUBNIKOV, V.F.

Author abstracts of dissertations in orthopedics, traumatology,  
tuberculosis of the bones and joints and prosthetics, defended in  
1954. Ortop., travm. i protez. no.6:84-85 N-D '55. (MIRA 9:12)  
(BIBLIOGRAPHY--ORTHOPEDIA)

ТРУБНИКОВ В.Ф.

TRUBNIKOV, V.F.

"Autor's abstracts of disserations on orthopedics, traumatology  
osteoarticular tuberculosis, and prothesis, defending in 1953.  
Ortop., travm. i protez. no.3:93-95 My-Je '55 (MLRA 8:10)  
(BIBLIOGRAPHY--ORTHOPEIDIA)



TRUBNIKOV, V.F., kandidat meditsinskih nauk

Histological data on the knitting of femur fractures with intra-  
osseous fixation of splinters by a metal rod. Ortop. travm. i  
protez. 17 no.6:137-118 N-D '56. (MLRA 10:2)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii i  
travmatologii im. M.I.Sitenko (direktor - zasluzhennyi deyatel'  
nauki professor N.P.Novachenko)  
(FEMUR--FRACTURE)

TRUBNIKOV, V.F., kandidat meditsinskikh nauk

~~Roentgenological~~ Roentgenological characteristic of the healing process in fractures  
of the femur. Ortop.travm. i protez. 17 no.6:136-137 N-D '56.  
(MLRA 10:2)

1. Iz Ukrainskogo nauchno-issledovatel'skogo inatitutaortopedii i  
travmatologii im. M.I.Sitenko (direktor - zasluzhennyy deyatel'  
nauki professor N.P.Novachenko)  
(FEMUR—RADIOGRAPHY)

TRUBNIKOV, V.F., kandidat meditsinskikh nauk

Subcutaneous injuries of the biceps brachii and surgical therapy.  
Ortop., travm. i protez. 17 no.2:23-27 Mr-Apr '56. (MLRA 9:12)

1. Iz Ukrainского nauchno-issledovatel'skogo instituta ortopedii i  
travmatologii im. M.I.Sitenko (dir. - zasluzhennyy deyatel' nauki  
prof. N.P.Novachenko)

(ARM, muscles,

biceps, subcutaneous inj., surg. (Rus))

(WOUNDS AND INJURIES,

biceps brachii, subcutaneous, surg. (Rus))

TRUBNIKOV, V.E., kandidat meditsinskikh nauk; SKOBLIN, A.P., kandidat meditsinskikh nauk

Transformation of local fibrous osteodystrophy into a sarcoma. Ortop.,  
travm. i protez. 17 no.4:53-55 J1-Ag '56. (MLRA 9:12)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii i  
travmatologii im. M.I.Sitenko (dir. - sasluzhennyy deyatel' nauki  
prof. N.P.Novachenko)

(OSTEITIS FIBROSA, compl.

femur, transformation into sarcoma)

(FEMUR, dis.

osteitis fibrosa with transformation into sarcoma)

(SARCOMA, case reports

femur, with transformation into sarcoma)

TRUBNIKOV, V. F.  
Khar'kov Medical Inst.

TRUBNIKOV, V. F.- "The healing of a broken femur in an experiment with intraosteal fixation of the breaks with a metal pin." Khar'kov Medical Inst. Khar'kov, 1956.  
(Dissertation for the Degree of Candidate in Medical Sciences)

SO: Knizhnaya Letopis' No. 20, 1956

TRUBNIKOV, V. F.

USSR/. General Problems of Pathology. Tumors

U-4

Abs Jour : Ref Zhur - Biol., No 5, 1958, 23145

Author : Gabrilenko, B.S., Trubnikov, V.E.

Inst : -

Title : Sarcoma of the Knee Joint.

Orig Pub : Tr. Khar'kovsk. nauch. med. o-vo, 1957, vyp, 6, 105-108

Abstract : No abstract.

Card 1/1

*TRUBNIKOV, V.F.*

USSR/ General Problems of Pathology. Tumors

U-4

Abs Jour : Ref Zhur - Biol., No 5, 1956, 23110

Author : Trubnikov, V.F., Skoblin, A.P.

Inst : -

Title : On the Transformation of a Local Fibrous Osteodystrophy into Saecoma.

Orig Pub : Ortopediya, travmatol., i protezir., 1956, No 4, 53-55

Abstract : This is a case of a sarcomatous transformation of a local fibrous osteodystrophy of the internal condyle of the femur in a man 63 years of age, 24 years after the original disease and 22 years after excochleation of the involved bone with filling of the defect with an autograft. Amputation was performed through the middle third of the femur. The histologic diagnosis was a spindle cell and round cell sarcoma of the femur. A detailed description of the macroscopic and microscopic appearance of the lesion is given.

Card 1/1

*Trubnikov V.F.*  
SKOBLIN, A.P., kandidat meditsinskikh nauk; TRUBNIKOV, V.F., kandidat  
meditsinskikh nauk

Fibrous osteodystrophy of the vertebrae. Ortop., travm. i protez.  
18 no.2:51-54 Mr-Apr '57. (MLRA 10:8)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii i  
travmatologii imeni M.I.Sitenko (dir. - zaslushennyi deyatel' nauki  
prof. N.P.Novachenko)

(SPINE, dis.  
fibrous osteodystrophy of vertebrae)



TRUBNIKOV, V.F., starshiy nauchnyy sotrudnik

Traumatic rupture of the ligamentum patellae. Ortop., travm. protez.  
19 no.1:65-67 Ja-F '58. (MIRA 11:4)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii i  
travmatologii im. M.I.Sitenko dir. - chlen-korrespondent AMN SSSR  
prof. N.P.Novarchenko)

(KNEE, wds. & inj.

traum. rupt. of ligamentum patellae propum (Rus))

TRUBNIKOV, V.F. (Khar'kov, ul. Korolenko, d.19, kv.11)

Ruptures of the tendon of the quadriceps femoris. Nov.khir.arkh.  
no.2:101-103 Mr-Ap '58 (MIRA 11:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut ortopedii i  
travmatologii im. prof. M.I. Sitenko.  
(THIGH--WOUNDS AND INJURIES)

TRUBNIKOV, V.F., starshiy nauchnyy sotrudnik

Roentgenological picture of the union of gunshot fractures of the femur; experimental studies. Ortop.travm. i protez. 20 no.6:45-50 (MIRA 13:3)  
Je '59.

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii i travmatologii im. M.I. Sitenko (direktor - chlen-korrespondent AMN SSSR prof. N.P. Novachenko).

(FEMUR, fract.

exper. caused by gunshot wds., x-ray follow-up after nailing (Rus))

EXCERPTA MEDICA Sec 19 Vol 2/5 Rehabilitation May 59  
1051. Traumatic ruptures of the proper ligament of the patella (Russian text)  
TRUBNIKOV V. E. *Ortop. Travm. i Prost.* 1958, 19:1 (65-67) Illus. 2

The operative technique employed in ruptures of the proper ligament of the patella from the tibial tuberosity consists in suture of the ligament to the site of rupture, with silk ligatures passing through a canal made in the tibial tuberosity with the help of a bone awl. In ruptures which include both the ligament and the plate of the tibial cortex, a fixation by the insertion of a heterogenous bone-peg is performed. Ruptures from the lower pole of the patella are treated by plastic reconstruction of the ligament. Following operation, plaster fixation is maintained for 3 weeks, followed by gentle active movement, massage and thermal procedures. Restoration of function and rehabilitation are complete one month after surgical correction.

Trubnikov - Kharkov

TRUENIKOV, V.F., kand.med.nauk

Universal film holder used in taking X-ray photographs.  
Trudy Ukr. nauch.-issl. inst. ortop. i travm. no.15:257-258  
'59. (MIRA 16:12)

1. Iz Ukrainського nauchno-issledovatel'skogo instituta ortopedii i travmatologii imeni prof. M.I.Sitenko (dir. - chlen-korrespondent AMN SSSR, Prof. N.P.Novachenko).

TRUBNIKOV, V.F., kand.med.nauk; RESHETILO, S.A.

Redresser for correcting taliper cavus and taliper equinus.  
Trudy Ukr. nauch.-issl. inst. ortop.i travm. n6.15:259-261  
'59 (MIRA 16:12)

1. Iz Ukrainського nauchno-issledovatel'skogo instituta ortopedii i travmatologii imeni prof. M.I.Sitenko (dir.-chlen korrespondent AMN SSSR prof. N.P.Novachenko). 2. Starshiy ortopedicheskij tekhnik Ukrainського nauchno-issledovatel'skogo instituta ortopedii i travmatologii imeni prof. M.I.Sitenko (for Reshetilo).

TRUBNIKOV, V.F., starshiy nauchnyy sotrudnik

Histological characteristics of the healing of gunshot fractures  
of the rib after fixation of its fragments with the aid of a  
metal nail. Ortop. travm. i protez, 21 no. 7:39-45 J1 '60.  
(MIRA 13:10)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii  
i travmatologii im. M.I. Sitenko (dir. - chlen-korrespondent  
AMN SSSR prof. N.P. Novachenko).  
(RIBS—FRACTURE)

TRUBNIKOV, V.F., starshiy nauchnyy sotrudnik (Khar'kov, ul.Korolenko, d.19,  
kv.11)

Fate of bone fragments following infliction of gunshot fractures  
of the femur. Ortop. travm.i protez. 22 no.1:44-48 Ja.'61.  
(MIRA 14:5)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii  
travmatologii imeni M.I.Sitenko (dir. - chlen-korrespondent AMN  
SSSR prof. N.P.Novachenko).  
(FEMUR--FRACTURE) (GUNSHOT WOUNDS)



TRUBNIKOV, V.F., doktor med. nauk (Khar'kov, ul. Gogolya, d.2.kv.52)

Use of tetrafluoroethylene plastics (fluoroplast-4) for  
osteosynthesis. Ortop. travm. i protez. 24 no.5:25-30 My '63.  
(MIRA 17:9)

1. Iz Khar'kovskogo meditsinskogo instituta (rektor - dotsent  
B.A. Zadorozhnyy) i Ukrainського instituta ortopedii i travma-  
tologiy imeni M.I. Sitenko (dir.- chlen-korrespondent AN  
SSSR prof. N.P. Novachenko).

TRUBNIKOV, Viktor Filippovich, prof., doktor med. nauk; NOVACHENKO,  
N.P., zasl. deyatel' nauki prof., red.; KORZH, A.A., red.

[Treatment of gunshot fractures of the femur] Lechenie ogne-  
strel'nykh perelomov bedra. Kiev, Zdorov'ia, 1965. 208 p.  
(MIRA 18:9)

1. Chlen-korrespondent AN SSSR (for Novachenko).

TRUBNIKOV, V.F., inzhener.

Collapsible travelling belt conveyor. Mekh.trud.rab. 11 no.1:38  
Ja '57. (MIRA 10:5)  
(Conveying machinery)

TRUBNIKOV, V.F.

Drawing an isotherm of tobacco sorption and deriving its deriving its equation, Izv.vys.ucheb.zav.; pishch.tekh. no.6: 112-115 '59. (MIRA 13:5)

1. Krasnodarskiy institut pishchevoy promyshlennosti. Kafedra spetsoborudovaniya.  
(Tobacco curing)

ASMAYEV, P.G.; TRUBNIKOV, V.F.

Uneven distribution of moisture in tobacco leaves. *Izv. vys. ucheb. zav.; pishch. tekhn.* no. 1:33-36 '60. (MIRA 13:6)

1. Kafedra tekhnologii tabaka Krasnodarskogo instituta pishchevoy promyshlennosti.  
(Tobacco)

PASHKOV, V.S.; TRUBNIKOV, V.F.

Air flow through the tobacco leaf layer. Izv. vys. ucheb. zav.;  
pishch. tekhn. no. 2:157-160 '61. (MIRA 14:5)

1. Krasnodarskiy institut pishchevoy promyshlennosti. Kafedra  
spetsoborudovaniya i Kafedra tekhnologii tabaka.  
(Tobacco)

TRUBNIKOV, V.F.; CHENIKOV, V.V.

Kinetics of the vapor sorption by tobacco leaves. Izv.vys.-  
ucheb.zav.; pishch.tekh. no.4:150-153 '62. (MIRA 15:11)

1. Krasnodarskiy institut pishchevoy promyshlennosti, kafedra  
tekhnologii tabaka.

(Tobacco curing)

TRUBNIKOV, V.P.; CHERMAN, M.S.; SHALASHINA, M.I.; SHARAFUTDILLOV,  
R.Kh.; MAKHMUDOV, M., red.

[I am enchanted by you, Uzbekistan!] Uzbekiston - bizni  
maftun etdi. Toshkent, Uzdavnashr, 1964. 137 p. [In  
Uzbek] (MIRA 17:11)



L 34789-66 EWT(1)

ACC NR: AR6017201

SOURCE CODE: UR/0058/65/000/012/A033/A033

AUTHOR: Kulabukhov, Yu. S.; Timokhin, L. A.; Trubnikov, V. R.

TITLE: Multichannel time selector with a range of seconds

SOURCE: Ref. zh. Fizika, Abs. 12A318

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 2. M., Atomizdat, 1965, 160-164

TOPIC TAGS: multichannel analyzer, time interval counter, ferrite core memory, data readout

ABSTRACT: The article describes a 120-channel time selector for the intervals of the order of seconds, employing one accumulating counter with a dead time  $0.5 \times 10^{-6}$  sec and a ferrite-core memory which is common to all channels. The channel width is set by means of a quartz oscillator and can be set at  $10^{-2}$ ,  $10^{-1}$ , 1, 10, and  $10^2$  sec. The uncertainty in the channel position relative to the starting pulse is  $10^{-3}$  sec. Provision is made for automatically switching the channel width in accordance with a pre-established program in groups of ten channels each. The readout of the accumulated data is with an oscilloscope and a number printer. The block diagram of the selector is presented and the operation of its individual units described. The practice of one year's operation of the selector has shown that its measuring characteristics are stable and all the units operate reliably. To illustrate the operation of the instrument, a plot of the intensity of delayed neutrons against time, obtained with the selector for the fission of  $U^{235}$  by 6-Mev neutrons, is presented. L. S. [Translation of abstract]

Card 1/1 SUB CODE:

09,20 80

ACC NR: AR6021258

SOURCE CODE: UR/0271/66/000/003/B059/B059

AUTHOR: Timokhin, L. A.; Trubnikov, V. R.

TITLE: A 256-channel ferrite core storage system

SOURCE: Ref. zh. Avtomat telemekh i vychisl tekhn, Abs. 3B490 /

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 2.  
M., Atomizdat, 1965, 75-81

TOPIC TAGS: computer memory, ferrite core memory, magnetic core storage, computer storage

ABSTRACT: A memory system for use in nuclear particle spectrometry is described. It may accept data from any measuring devices. The memory unit is based on magnetic cores with two-cores-per-bit and triple current coincidence selection. The matrix input uses a magnetic core switching unit which combines the functions of switching and binary coded address decoding. The capacity of each channel is  $2^{16} - 1$ . Both the address counter and the arithmetic unit are based on flip-flops which permit serial or parallel control. Provisions are made for forward or reverse address cycling, both arithmetic unit operating modes (addition and subtraction), and dividing the channels into two groups. The data may be delivered into an electron beam tube or the SDM-107 typewriter. [Translation of abstract] 5 illustrations. V. L.

SUB CODE: 09, 20

Card 1/1

UDC: 681.142.4

**"APPROVED FOR RELEASE: 03/14/2001**

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**CIA-RDP86-00513R001756810018-4"**



ACCESSION NR: AR4020786

S/0271/64/000/002/B045/B045

SOURCE: RZh. Avtomat., telemekh. i vy\*chislitel. tekhnika, Abs. 2B283

AUTHOR: Timokhin, L. A.; Trubnikov, V. R.; Zherebtsov, V. A.

TITLE: Adder for recording systems of analyzers with ferrite core memories

CITED SOURCE: Tr. 5-y Nauchno-tekhn. konferentsii po yadern. radio-elektronike. T. 2. Ch. 1. M., Gosatomizdat, 1963, 155-161

TOPIC TAGS: adder, recording system, analyzer, ferrite core memory

TRANSLATION: In an analyzer recording system the adder adds units to the numerical output from the matrix and controls the digit currents when numbers are recorded in the matrix. The adder is used for data printout, for output to external units, as well as for visual display on a CRT. Circuits and operating characteristics are given for experimental binary and decimal adders capable of performing the indicated operations. Magnetic core elements type K-222 are used in the gate control circuits as well as D9D diodes. Type P26B transistors are used in the interrogation pulse and gating current generators. The circuits are

Card 1/2

ACCESSION NR: AR4020786

simple, are easily calculated and adjusted, and operate stably even when the supply voltage varies by  $\pm 25\%$  and the ambient temperature ranges between  $+5$  to  $50$  C. Orig. art. has 4 figs. and 2 refs. G. K.

DATE ACQ: 03Mar64

SUB CODE: SD, CP

ENCL: 00

Card 2/2

TRUBNIKOV, V.V.

Against underestimation of zootechnicians. Zhivotnovodstvo 20 no.3:  
81 Mr '58. (MIRA 11:2)

1. Glavnyy zootekhnik Khlopunovskoy mashinno-traktornoy stantsii,  
Altayskogo kraya.

(Stock and stockbreeding)

**CIA-RDP86-00513R001756810018-4"**

TRUBNIKOV, V.M., kand. tekhn.nauk; ROMANENKO, P.N., prof., red.;  
TETERINA, Z.Ya., red.

[Aerodynamic design of a boiler unit] Aerodinamicheski  
raschet kotel'nogo agregata; metodicheskoe posobie. Pod  
red. P.N.Romanenko. Moskva, 1959. 37 p. (MIRA 17:2)

1. Moscow. Lesotekhnicheskiy institut. Kafedra teplo-  
tekhniki i teplosilovykh ustanovok.

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TITLE: Crane equipment for transporting and handling flat loads of various sizes.  
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ABSTRACT: This Author Certificate presents a crane equipment for transporting and handling flat loads of various sizes, not designed to support their own weight without bending. The equipment contains a traverse suspended from the edge of the crane and two hoisting drums. In the course of manipulating the loads, cables are wound onto these drums in various directions. The cables carry holding devices. To expedite the changes necessary for handling loads of different sizes and to simplify its construction, the holding mechanism has the form of a frame with a system of clamps (see Fig. 1). Each side of the frame carries coplanar inserts in the form of struts. The frame is suspended not only from the drum cables, but also along its long sides by the cables passing over the blocks to the traverse. The drums are connected to one another with rapidly demountable clamps and are turned by an

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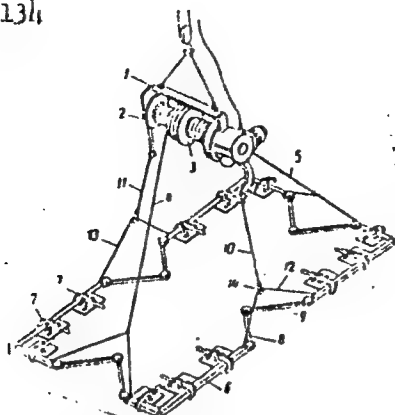


Fig. 1. 1 - traverse; 2 and 3 - hoisting drums; 4 and 5 - cables; 6 - frame; 7 - clamps; 8 and 9 - hinged struts; 10 and 11 - cables; 12 and 13 - flexible loops; 14 - blocks

electric motor through a reducing gear and a clutch. The latter makes it possible to separate the drums from the reducing gear when it becomes necessary to unwind some of the cables between the frame and the drums. In this situation, the drums are disconnected from one another so that they are free to turn in different directions, independently. Each clamp consists of an arm free to turn in a vertical plane in respect to the frame. The clamping surface is curved and nearly cylindrical. It interacts with the upper surface of the clamped load, and is free to turn on the arched guides of a  $\Pi$ -shaped handle. The openings in the walls of this handle serve to accommodate a prong fixed to the free end of the rod. At the lower part of the

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handle, which forms an extension of the walls, there lie clamps for grasping the end of the load. These clamps are provided with a bearing plane interacting with the lower surface of the clamped load at the part farther from the handle than the zone of interaction between the aforementioned strut and the upper surface of the load (when the handle is in the working vertical position). This arrangement assures a proper clamping of the load to the frame. The clamping part of the arm may be hinged to an interchangeable shoe. A rubber insert is placed between the inner surface of the shoe and the surface of the arm. This insert is reinforced with a blade spring. To provide for the remote control of the clutch and to diminish its size, a conical trunnion of the drum is used as one of the half-clutches. This trunnion lies on the side of the reducer formed as a worm gear. The second half-clutch is also conical. It is inserted into the worm wheel of the reducer, is attached to it through a slot connection, and carries a flattened stem with a nut carrying a crown sprocket. The latter meshes with a toothed rack attached to the support of an electromagnet. The button for throwing on the electromagnet is on the directing panel within the cabin of the crane. Orig. art. has: 1 figure.

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vmb



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(WATER SUPPLY

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